#### PATENT COOPERATION TREATY

o:				PCT
see form F	PCT/ISA/220		WRIT INTERNATIO	TTEN OPINION OF THE NAL SEARCHING AUTHORITY
				(PCT Rule 43bis.1)
			Date of mailing (day/month/year)	see form PCT/ISA/210 (second sheet)
pplicant's or agent's file			FOR FURTHER See paragraph 2 be	
nternational application in CT/EP2004/00697	No.	International filing date 25.06.2004	(day/month/year)	Priority date (day/month/year) 25.06.2003
•	sification (IPC) or	both national classification  20, C23F11/10	and IPC	
pplicant				
RHODIA CHIMIE				
<ul><li>☑ Box No. I</li><li>☑ Box No. II</li></ul>	Basis of the o	pinion	ollowing items:	entive step and industrial applicability
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### 10/562055

## WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/006975

IAP20 Reside FOTTETO 23 DEC 2005

	Box No	. I Basis of the opinion
1.	With re	gard to the language, this opinion has been established on the basis of the international application in guage in which it was filed, unless otherwise indicated under this item.
	☐ Th lar (ur	is opinion has been established on the basis of a translation from the original language into the following Iguage , which is the language of a translation furnished for the purposes of international search Inder Rules 12.3 and 23.1(b)).
2.	With re	gard to any <b>nucleotide and/or amino acid sequence</b> disclosed in the international application and arry to the claimed invention, this opinion has been established on the basis of:
	a. type	of material:
		a sequence listing
		table(s) related to the sequence listing
	b. form	nat of material:
		in written format
		in computer readable form
	c. time	e of filing/furnishing:
		contained in the international application as filed.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority for the purposes of search.
3	h	addition, in the case that more than one version or copy of a sequence listing and/or table relating ther as been filed or furnished, the required statements that the information in the subsequent or additional opies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
	4. Addit	ional comments:

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

International application No. PCT/EP2004/006975

RO	x No. II	Priority			
. 🗆	The fol	lowing document has	not been furni	shed:	
		copy of the earlier a	pplication whos	se priority has	been claimed (Rule 43bis.1 and 66.7(a)).
					y has been claimed (Rule 43bis.1 and 66.7(b)).
			't 1 - 4 - m	idor tha W	alidity of the priority claim. This opinion has ne relevant date is the claimed priority date.
2. 🗆	This of the has be filing of	pinion has been estat en found invalid (Rul late indicated above i	olished as if no es 43 <i>bis</i> .1 and s considered to	priority had b 64.1). Thus for be the releva	een claimed due to the fact that the priority claim or the purposes of this opinion, the international ant date.
3. 🖾	It has was no never	not been possible to one of available to the ISA theless been establish	consider the va A at the time thaned on the assi	alidity of the prate the search that the search that the thick that the search	riority claim because a copy of the priority docume was conducted (Rule 17.1). This opinion has he relevant date is the claimed priority date.
4 Ac	Iditional	observations, if neces	ssary:		
4. Ac	dditional	observations, if neces	ssary:		
4. Ac	dditional				
			nont under Ru	ıle 43 <i>bis</i> .1(a)	(i) with regard to novelty, inventive step or
			nont under Ru	ule 43 <i>bis</i> .1(a) nations supp	(i) with regard to novelty, inventive step or or orting such statement
Be in		Reasoned stater applicability; citation	nont under Ru	ule 43 <i>bis</i> .1(a) nations supp	(i) with regard to novelty, inventive step or or or statement
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see separate sheet

# WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY (SEPARATE SHEET)

International application No.

PCT/EP2004/006975

IAP20 REGISTATO 23 DEC 2005

#### Re Item V.

1 Reference is made to the following documents:

D1: US 6 379 612 B1 (REIZER JAMES M ET AL) 30 April 2002 (2002-04-30)

D2: US 6 312 644 B1 (MORIARTY BARBARA E ET AL) 6 November 2001 (2001-

11-06)

2 Novelty (Art. 33(2) PCT)

Document D1, which is considered to represent the most relevant state of the art, discloses (claims 1-17, col. 9, l. 66) tagged scale-inhibitors which can be utilized in petroleum wells and oil field applications.

From this, the subject-matter of independent claims 1-11 differs in that it relates to a method wherein at least two streams of such scale inhibitors are injected into at least two production zones. The subject-matter of claims 1-11 is therefore novel (Article 33(2) PCT).

- 3 Inventive step (Art. 33(3) PCT)
- 3.1. The subject-matter of claim 1 refers to scale inhibitors "having different detectable moieties". The examples and the description however are based on fluorometric detectable moieties.

The problem to be solved by such tagged scale inhibitors was to improve the efficiency of the detection of scale inhibitors in the drilling fluids.

However this technical problem can only be taken into account if it would be rendered technically plausible that substantially all claimed compounds having "detectable moieties" possess this activity.

In the present case it is evident that the number of possible compounds which fulfil the criteria of claim 1 is such that it is **inherently implausible** that all of them will possess the claimed activity.

Therefore, the subject-matter of claims 1-3 extend to compounds which are not inventive and do not meet the requirements of Art. 33(3) PCT.

- 3.2. The subject-matter of claims 4-11 is distinguished from D1 in that it refers to an injection method which is not disclosed in D1.
  - None of the cited documents give an incentive to select the specific injection method of injecting into at least two production zones scale inhibitors having different detectable moieties such as disclosed in claim 4. Hence, an inventive step may be acknowledged for claim 4 and the claims depending on claim 4.